

# gis . In The News

FALL 2003

News from the City of Salisbury ♦ North Carolina GIS Community

VOL 2 NO 2

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## GIS DIVISION NEWS

### Salisbury-Rowan Utilities Officially Adds GIS Unit

By Kathryn Clifton  
City of Salisbury GIS Coordinator

Salisbury-Rowan Utilities now sports a new unit within the Finance and Administration Division — Geographic Information Systems. Three individuals make up the unit at present — Patrick Kennerly, Utilities GIS Coordinator; Trey Cleaton, GIS Mapping Technician; and Fred L. Mowery, Jr., GIS Mapping Technician.

Data collection efforts within Utilities have been underway for some time (see Project Spotlight). Indeed, water and sewer information was identified as the highest priority item for data collection by the majority of departments and divisions represented by the GIS Users Group. With additional staff, the enormous feat of creating a comprehensive inventory of water and sewer infrastructure within the Salisbury-Rowan Utilities service area should move along at a faster pace.

Patrick Kennerly is not new to the City of Salisbury. He began his tenure here as the Zoning and Code Enforcement Specialist, and soon moved into the position of Planner in February 2000. Now, he has moved into the position of Utilities GIS

See **Salisbury-Rowan Utilities GIS Unit**, Page 2

## PROJECT SPOTLIGHT

### Sewer Data Collection Efforts Underway

By Patrick Kennerly  
Salisbury-Rowan Utilities GIS Coordinator

This summer, Fred L. Mowery, Jr. and an intern, Jonathan Sofley, completed a pilot sewer data collection study along the Town Creek Interceptor Line. The data collection process actually began in the office, collecting as-built drawings, mini-system maps, and other pertinent information. On the technical side, Kathryn Clifton created a data dictionary to aid in the collection of attribute data in the field using GPS equipment.

A number of barriers to data collection

See **Sewer Data Collection**, Page 3

## MORE GIS DIVISION NEWS

### GIS Users Group Contest Winners Announced

Members of the City of Salisbury GIS Users Group were asked to submit a 2' x 3' map illustrating a project that they were in the process of working on or had completed. The following people were recognized by their peers.

**First Prize:** Patrick Kennerly, with a map of billboard locations along I-85

**Second Prize:** Vickie Eddleman, with a map of the Klumac Road RR intersection

**Third Prize:** Patrick Kennerly, with a map of the historic City Limits

Maps will be displayed outside the Training Room on the fourth floor of the City Office Building. ♦

## COUNTY CORNER UPDATE

### Rowan County Orthophotography Project Completed

By Adrian Rollans  
Rowan County GIS Coordinator

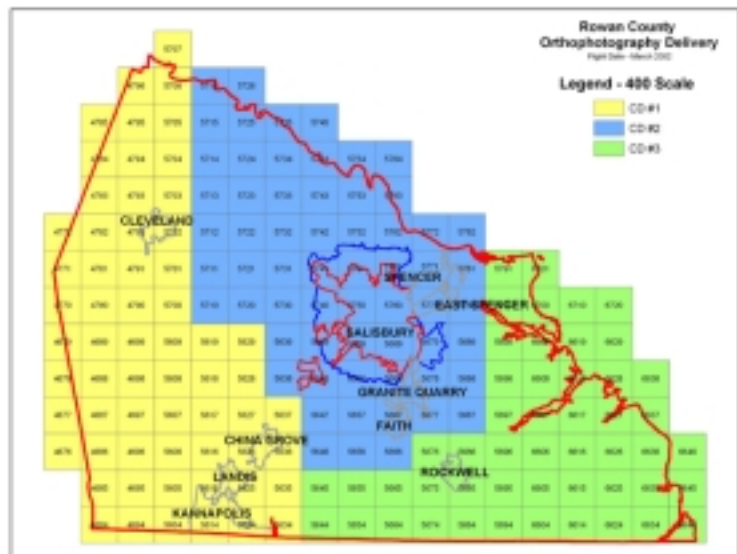
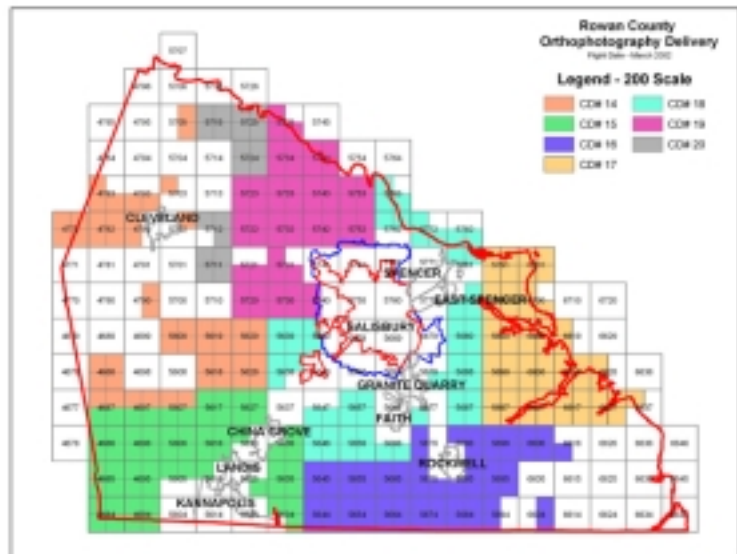
Orthophotography for Rowan County has been delivered in full by the vendor, Aero-Dynamics, Corporation of Charlotte, NC, a Sanborn Mapping Company.

The imagery was flown in early March 2002, an optimum time for the collection of leaf-off data. All municipal limits are available at 1" = 100'. Because of the high resolution of the 100 scale imagery, they make up ten CDs of the twenty CD set. The City of Salisbury also received imagery at this scale within the ETJ and along corridors where water lines exist or plan to be built. Selected areas are available at 1" = 200', and are available on seven CDs. The entire County is available at 1" = 400', and is available on only three CDs.

This orthophotography project is part of a mapping upgrade to the countywide Enhanced 9-1-1 system to assist in better locating wireless callers in the County and all of its municipalities.

The City and County will offer this orthophotography in a twenty volume MrSID format CD set, and will make it available for purchase by November 2003. All CDs will contain the free ESRI ArcExplorer data browser. Both the City and County anticipate incorporating this new orthophotography into online GIS applications.

Contact Adrian Rollans for more information about this project. PHONE 704-638-3131  
EMAIL [rollansa@co.rowan.nc.us](mailto:rollansa@co.rowan.nc.us) ♦



Illustrative maps of 200 and 400 scale imagery coverage for Rowan County.

### ... Salisbury-Rowan Utilities GIS Unit (from page 1)

Coordinator. Patrick brings with him over four years experience with ArcView 3.2 and ArcGIS 8.x, and a thorough understanding of the current City of Salisbury and Salisbury-Rowan Utilities GIS capabilities and future needs.

Trey Cleaton started with Salisbury-Rowan Utilities only a month ago. He received his Bachelor of Science in Geography from the University of North Carolina at Charlotte in May 2003, and is currently pursuing a Master of Geography. Trey worked for both Mecklenburg County Real Estate Services and the Geography & Earth Sciences Department, UNCC while pursuing his undergraduate degree.

Fred L. Mowery, Jr. brings a considerable amount of knowledge of the Salisbury-Rowan Utilities system with him to the GIS Unit. Indeed, he is an essential element of the team. Fred has over 27 years experience with the City. He is familiar with all of the cities served by Salisbury-Rowan Utilities, and has worked with each of them in the past.

The Salisbury-Rowan GIS Unit is currently located at 100 West Innes Street, Suite 302. However, they will be moving to the Waterworks Building at 1 Water Street in the near future.

Contact Patrick Kennerly for more information about the Salisbury-Rowan Utilities GIS Unit.  
EMAIL [pkenn@salisburync.gov](mailto:pkenn@salisburync.gov) ♦

## GIS DIVISION UPDATE

### GIS Website to be Redesigned

By Kathryn Clifton  
City of Salisbury GIS Coordinator

The GIS Division website will soon sport a new look — with more emphasis on the GIS Division logo and color scheme, an online calendar of events, and more information for the general public regarding available data.

The GIS Division is very interested in the use of ArcIMS to enable the City of Salisbury and its departments to better serve its citizens and those interested in Salisbury through readily available access to timely and accurate digital information. As such, new emphasis will be placed on custom online applications for service to the public 24 hours a day, 7 days a week. Such items identified in the GIS Master Plan include a parks locator, bus route information, leaf and garbage collection areas, and an historic districts browser.

The Virtual Map Counter has been a popular portion of the website. Additional frequently requested maps will be placed on the website, and made available for download or printing.

Another popular portion of the website is the online data catalog, which details what digital data is readily available from the City. Work will be done to implement an online metadata browser, which will enable people to better understand the data (and attributes) that are available. Metadata should answer common questions such as “What projection is this information in?”, “When was this data last updated, and by whom?”, and “Who do I contact if I have a question about this data?”.

Input from the public and from staff are a welcome part of the GIS website redesign process. Simply contact Kathryn Clifton via phone or e-mail — she will be happy to work with you.

If you would like to be involved in the process, please contact Kathryn Clifton at 704-638-5246 or via e-mail at [katclif@salisburync.gov](mailto:katclif@salisburync.gov). ♦

## USER INSIGHT

Comments &  
Suggestions  
Welcome



Your comments and suggestions for *GIS In the News* would be greatly appreciated. Also, if you have a question about GIS, its uses, software, etc. please submit them as well.

Just send an e-mail to Kathryn Clifton with the subject “GIS In the News”. ♦

WELCOME TO HISTORIC  
*Salisbury, North Carolina*

Geographic Information Systems Division

HOME / ABOUT  
GIS Overview  
Data Catalog  
Resources  
Services  
Users Group

Dear GUS  
Suggestions

Welcome  
Mission  
Staff Directory  
Newsletter

Salisbury  
GIS Division  
— Contact Us

Access count: 3690  
since July 1, 2002.

Revised Monday, July 22, 2002

About the GIS Division

The City of Salisbury GIS Division coordinates mapping and data development for the City of Salisbury's departments. Each department utilizes GIS in order to provide a continuing level of service to the citizens of Salisbury. Data such as a digital zoning map, street centerlines, city limits, and other boundaries are currently complete; other data are constantly being developed.

The GIS Division is committed to the development of accurate and timely data about the City of Salisbury and the surrounding region. A primary goal of the GIS Division is to provide the citizens of Salisbury quick and easy access to accurate and current information on zoning, parcel and tax records, historic districts, parks and recreation, water and sewer, as well as other general information that can be catalogued and mapped. Much of this information is currently available through the individual departments of the City.

City of Salisbury Home | GIS Home | GIS Overview  
Data Catalog | Resources | GIS Services | Suggestions

*The GIS website will soon sport a whole new look.*

## ... Sewer Data Collection Efforts Underway (from page 1)

existed along the Town Creek Interceptor Line: visual obstruction of structures; dangers such as bugs, snakes, and poison oak; weather (heavy rain); equipment limitations; and old abandoned facilities that still remained. In this regard, the Town Creek Interceptor Line made for a great pilot area...a number of issues with the data dictionary and the GPS equipment were identified and resolved.

Upon completion of the pilot area, Fred and Jonathan moved on to the Town of Rockwell, in an effort to identify problems of inflow and infiltration within the system. Jonathan completed his internship in August 2003. Fred continued the project solo until Trey Cleaton was hired in September. The majority of the Town of Rockwell has been collected to date, with only a few CNL (“can not locate”) manholes. Crew members from Systems Maintenance will be able to use a small camera to video the lines in an effort to locate the missing manholes and complete the project.

New GPS equipment (Trimble GeoXT) received from the Department of Homeland Security through the State Domestic Preparedness Grant will facilitate data collection in additional municipalities.

Contact Patrick Kennerly for more information about sewer data collection efforts. EMAIL [pkenn@salisburync.gov](mailto:pkenn@salisburync.gov) ♦



## TRAINING OPPORTUNITIES

### ArcGIS 8.3

Training is available for the desktop application ArcView/ ArcEditor/ ArcInfo 8.3.

This two-day class is intended to introduce individuals to ArcGIS and provide the foundation for using ArcGIS. Individuals learn how to use ArcMap, ArcCatalog, and ArcToolbox. The class covers basic GIS concepts, as well as how to create, edit, and maintain spatial data.

This course is intended for those who are new to ArcGIS or to geographic information systems in general.

Class size is limited to twelve students. The instructor must have at least two weeks' notice prior to the date you would like to receive training so that adequate manuals, etc. can be ordered.

#### Class dates:

November 19-20, 2003 (FULL)

January 21-22, 2004

Contact Kathryn Clifton if you are interested in ArcGIS training. ♦

## USER INSIGHT

Dear GUS,

Dear GUS (GIS User Specialist) is a column that will address common questions that GIS users may encounter.



Dear GUS,

I'd like to show street rights-of-way on my maps, but I'm confused about where I should be getting this information from on the server.

Signed, Left of Center

Dear Left of Center,

I can see where you might be confused about this, because street rights-of-way are actually located within two data types on the City of Salisbury GIS server. Tiled cadastral data (1987 vintage) is available under the AutoCAD/cadastral folder, but this information represents the street rights-of-way as they were when the cadastral was created. This information has not been updated.

A better place to acquire the street rights-of-way would be in the AutoCAD/ infrastructure folder. This data layer is maintained by the Land Management & Development Department, Engineering Division staff. It is updated as the street rights-of-way change, and represents the most accurate information about rights-of-way. Thanks for your great question! Keep them coming!

If you would like to submit a question to GUS, simply direct your e-mail to [deargus@salisburync.gov](mailto:deargus@salisburync.gov). Or visit the Dear GUS webpage at [http://gis.salisburync.gov/dear\\_gus.asp](http://gis.salisburync.gov/dear_gus.asp) ♦

## GIS Meeting & Conference Calendar

### GIS Users Group Meeting

- December 18, 2003 12 NOON  
\*Christmas Party
- February 19, 2004 12 NOON
- April 15, 2004 12 NOON

GIS Users Group Meetings are held bi-monthly at the Plaza, 100 East Innes Street, in the second floor conference room.

### CADre (<http://www.cadresys.com>)

5701 Westpark Drive Suite 110 Charlotte, NC 28217

- November 18, 2003 Civil/Survey Workshop  
...qualifies for Professional Development Hours...

### ESRI International User Conference (<http://www.esri.com>)

- August 9-13, 2004 San Diego, CA

### ESRI Southeastern Regional Users Group SERUG (<http://www.serug.com>)

- February 1-6, 2004 Savannah, GA

### GIS Day 2003

(see <http://www.gisday.com>)

- November 19, 2003

### Urban & Regional Information Systems Association (URISA) IT/GIS in Public Works (<http://www.urisa.org/>)

- February 25-27, 2004 Charlotte, NC

If you know of an upcoming event that may be of interest to other AutoCAD and GIS users, please e-mail Kathryn Clifton with the location, date, and other details. ♦

## City of Salisbury GIS DIVISION

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